

ALL-FLAG OFFICERS CONFERENCE



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12 MARCH 2002

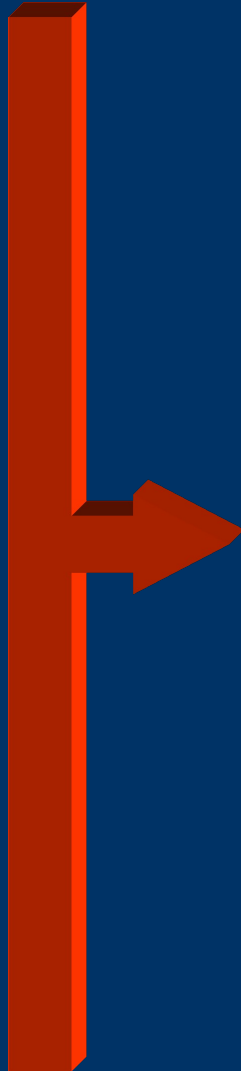
Where Are We?

*In the last five
years (FY97-02),
mishaps cost the
Navy \$3.84*

*BILLION and
174 Sailors and Marines died in
FY01*

*1,064 killed
94 Sailors and Marines died this
fiscal year**

Indirect costs?



**As of 5 Mar 02*



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Cost and Deaths

Navy and Marine Corps

FY97-02*

Cost

In Millions

■ Shore/Ground ■ Afloat ■ PMV ■ Recreation ■ Aviation

Aviation:
\$3.137B

Recreation
: \$61M

PMV:
\$133M

Afloat:

\$368M

Shore/Ground/Op MV:
\$144M

Total: \$3.84B

Deaths

■ Shore/Ground ■ Afloat ■ Traffic ■ Recreation ■ Aviation

Traffic: 619

Afloat:
19

Shore/
Ground:
133

Aviation:
151

Recreation:
142

Total Deaths: 1,064

***As of 5 Mar 02**



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Human Error

FY97-02*

No. of Class-A Mishaps

Human Error

Navy/Marine
Aviation*

140 of 166

HE 84%

Non-HE
16%

*FY97-01
F/FR/AGM

Navy Afloat

41 of 50

HE 82%

Non-HE
18%

Navy Operational Shore

36 of 48

HE 75%

Non-HE
25%

Navy PMV

293 of 346

HE 85%

Non-HE
15%

***As of 5 Mar 02**



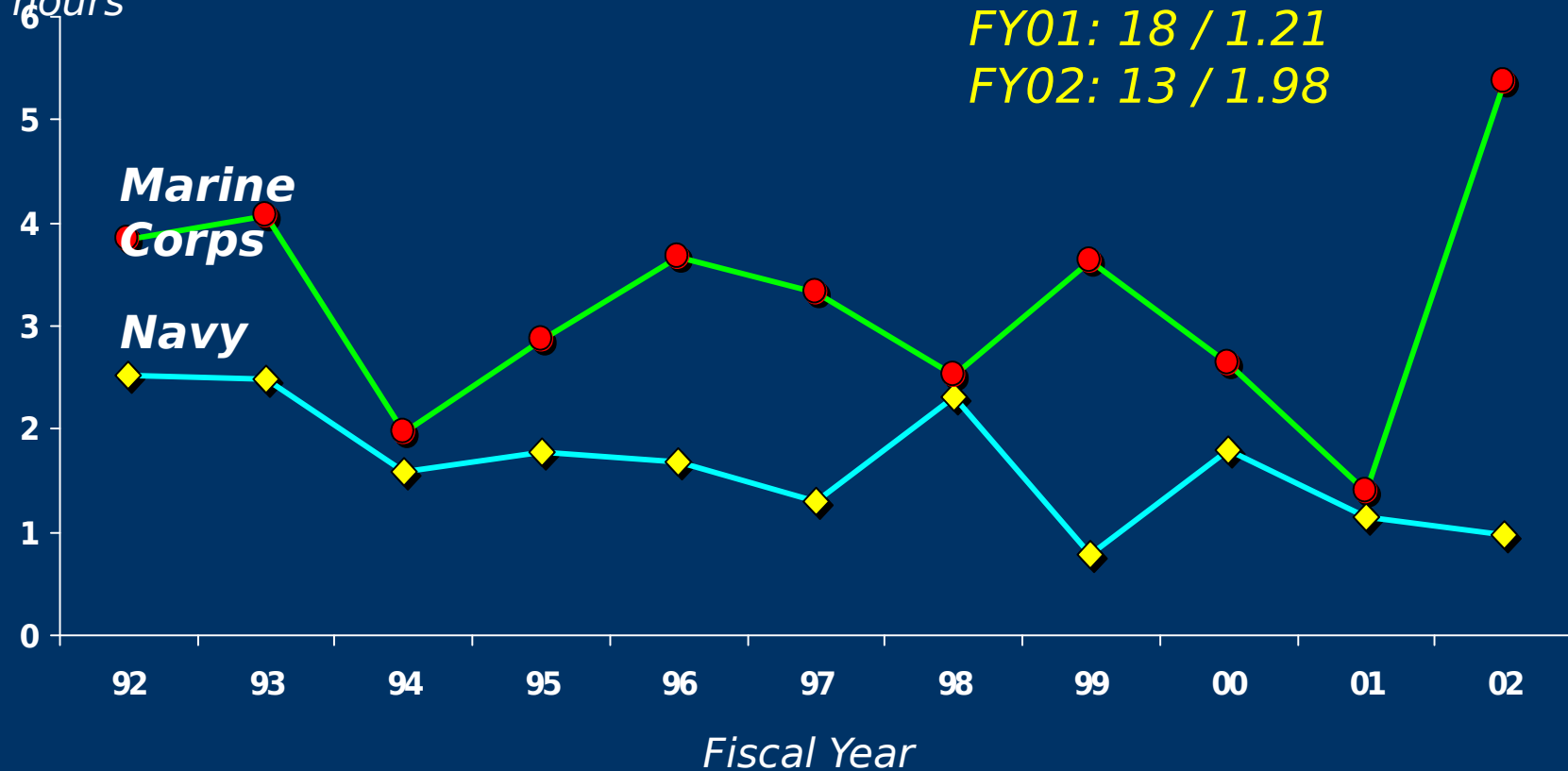
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Class-A Flight Mishap Rates*

Navy and Marine Corps

Mishap rates per 100,000 flight hours



*As of 5 Mar 02



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Aviation

TRENDS

Mishap

Investigations

- *Human error (aircrew):*

- Leading causal factor*

- Skill-based errors
 - CRM failures
 - Violations

- Surveys

- *Manning/inexperience*

- Training

- quality/quantity*

- NATOPS/technical pubs

- Cannibalization rates
up

TAKEAWAYS

- *Fund state-of-art simulators and data centric systems*
- Improve training
- Increase proficiency
- Institutionalize ORM
- Enforce standards
- Increase checks and balances



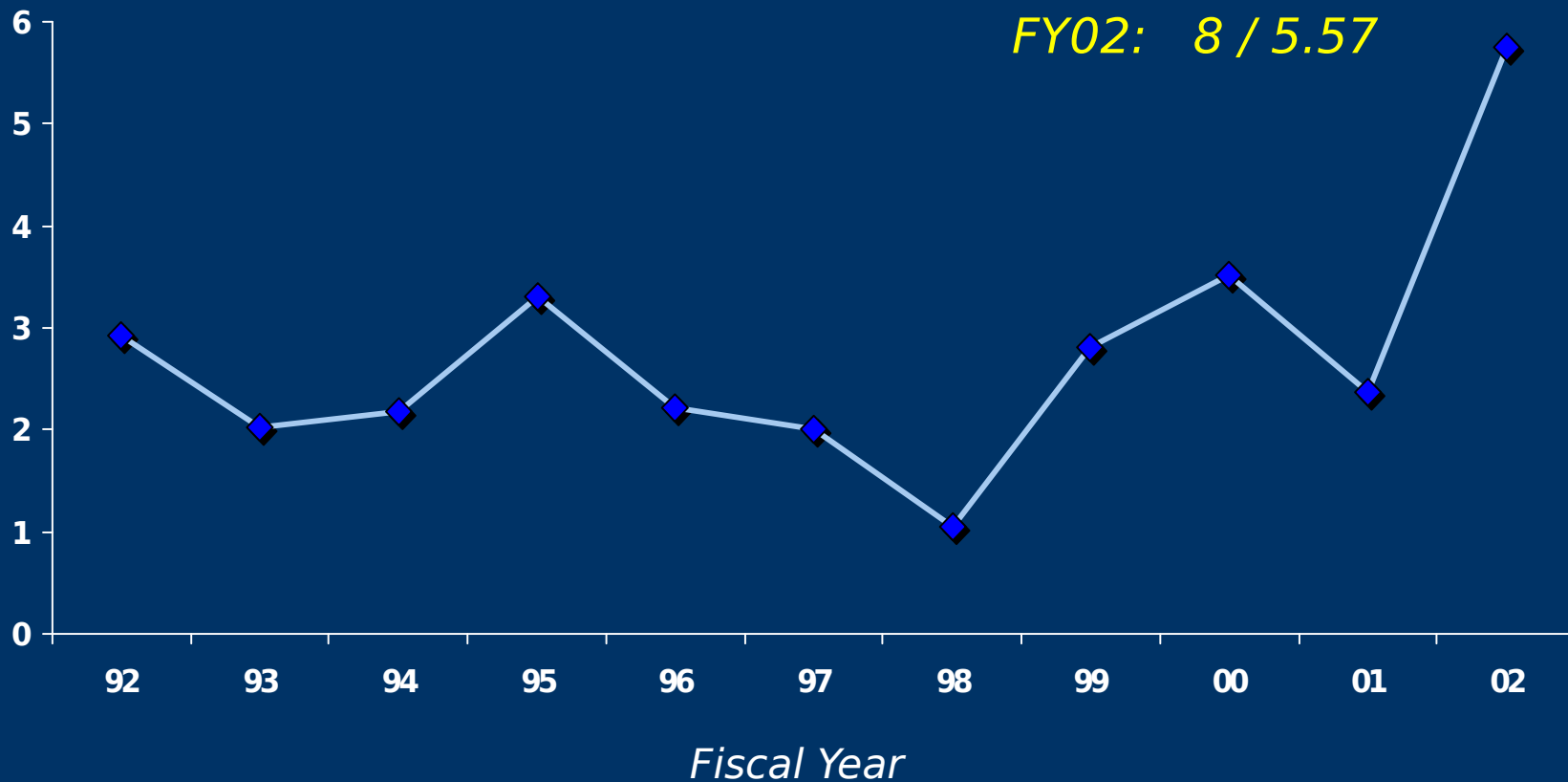
Navy Afloat Class-A Mishap Rates*

FY00: 12 / 3.51

FY01: 8 / 2.37

FY02: 8 / 5.57

Mishap rates per 100 ships per year



*As of 5 Mar 02



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Afloat

TRENDS

Mishap Investigations

- *Inadequate supervision*
- Poor PMS
- Poor CRM
- Poor situational awareness
- Complacency

Surveys

- *Poor leadership, supervision*
- Poor PMS
- Weak self-assessment capability
- Ineffective training

TAKEAWAYS

- *Leadership commitment*
- Enforce standards
- Increase checks and balances
- Institutionalize ORM
- Demand risk assessments
- Improve/standardize navigation technology
- Increase simulator training

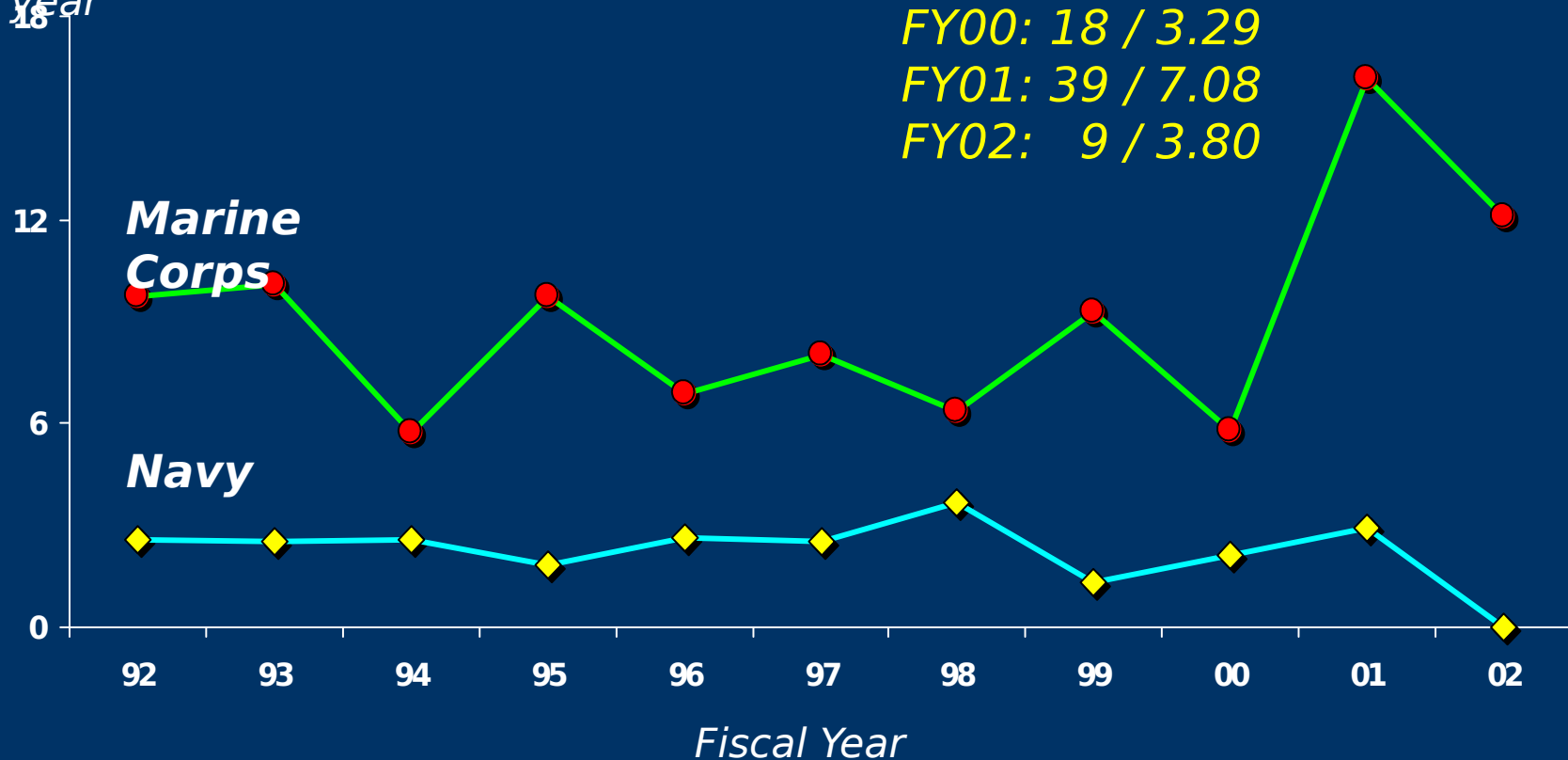


Class-A Operational Ashore Mishap Rates*

Navy and Marine Corps

Mishap rates per 100,000 personnel per year

Navy/Marine
FY00: 18 / 3.29
FY01: 39 / 7.08
FY02: 9 / 3.80



*As of 5 Mar 02



Shore



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TRENDS

Mishap Investigations

- *Lack of headwork*
- *Inadequate supervision*
- *Inexperience*
- *Complacency*
- *Alcohol involvement*
- *Non-use of PPE*

Surveys

- *Ineffective oversight*
- *Inadequate training*
- *Lack of ORM*
- *Poor command culture*

TAKEAWAYS

- *Continued leadership commitment*
- *Enforce standards*
- *Improve awareness*
- *Demand risk assessments*
- *Improve safety manning/placement*
- *Increase checks and balances*
- *Institutionalize ORM*
- *Improve training*

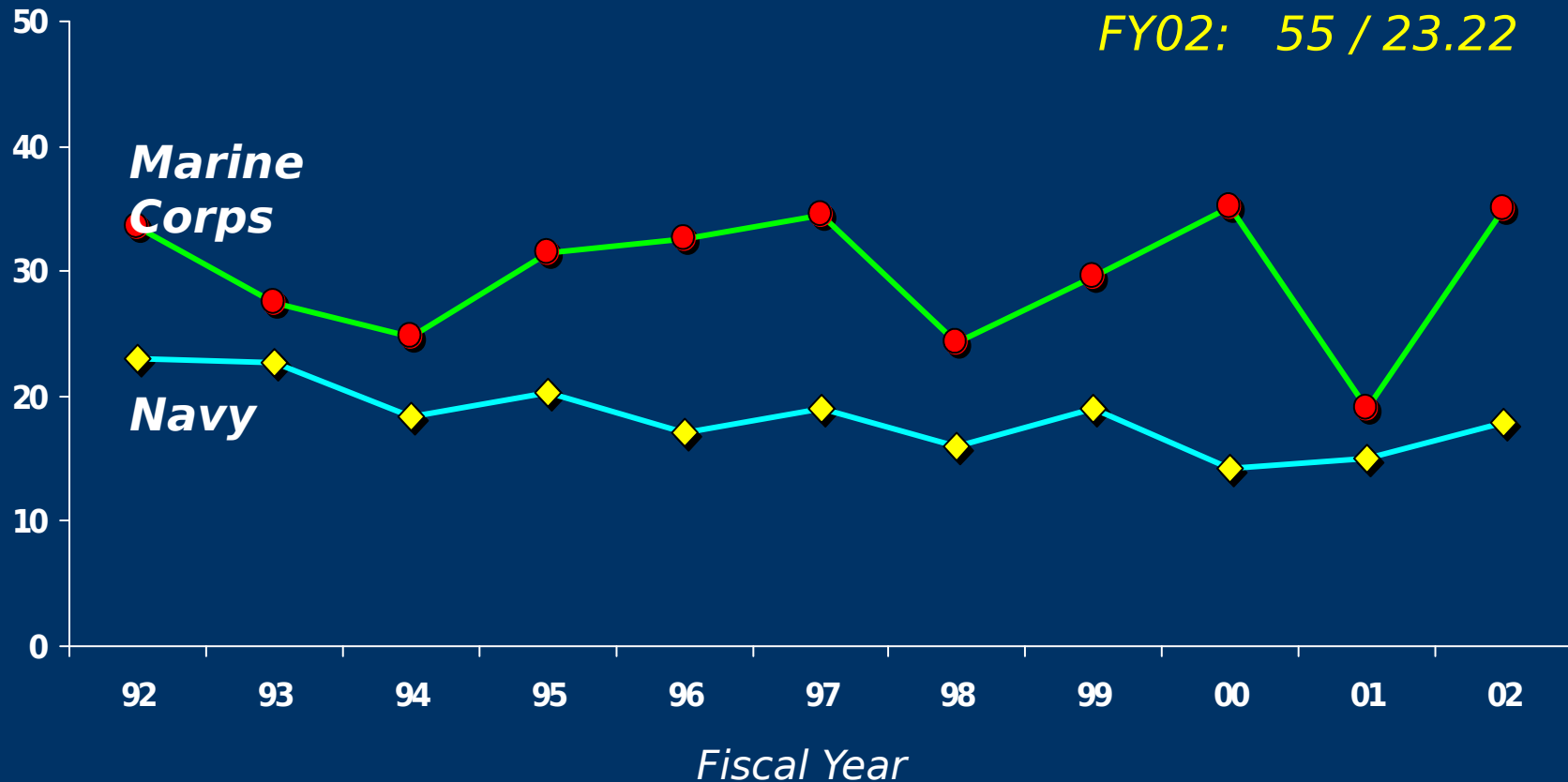


PMV Fatality Rates*

Navy and Marine Corps

Mishap rates per 100,000 personnel per year

Navy/Marine
FY00: 114 / 20.86
FY01: 90 / 16.34
FY02: 55 / 23.22



*As of 5 Mar 02



Perspective

“In 1968, we lost 99 American Sailors in USS Scorpion, which we think of as a national disaster; while we lost 103 Sailors and Marines in PMV accidents in 1998, and call it our ‘best year’!”



PMV Fatalities by Community

FY97-02*

Total: 346 Sailors
273 Marines

Afloat
168

Shore
141

Navy
Aviation
37

USMC
273

***As of 5 Mar 02**



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Fatal Factors in Traffic Deaths

Navy and Marine Corps, FY99-01

FY99-01 Deaths:
326

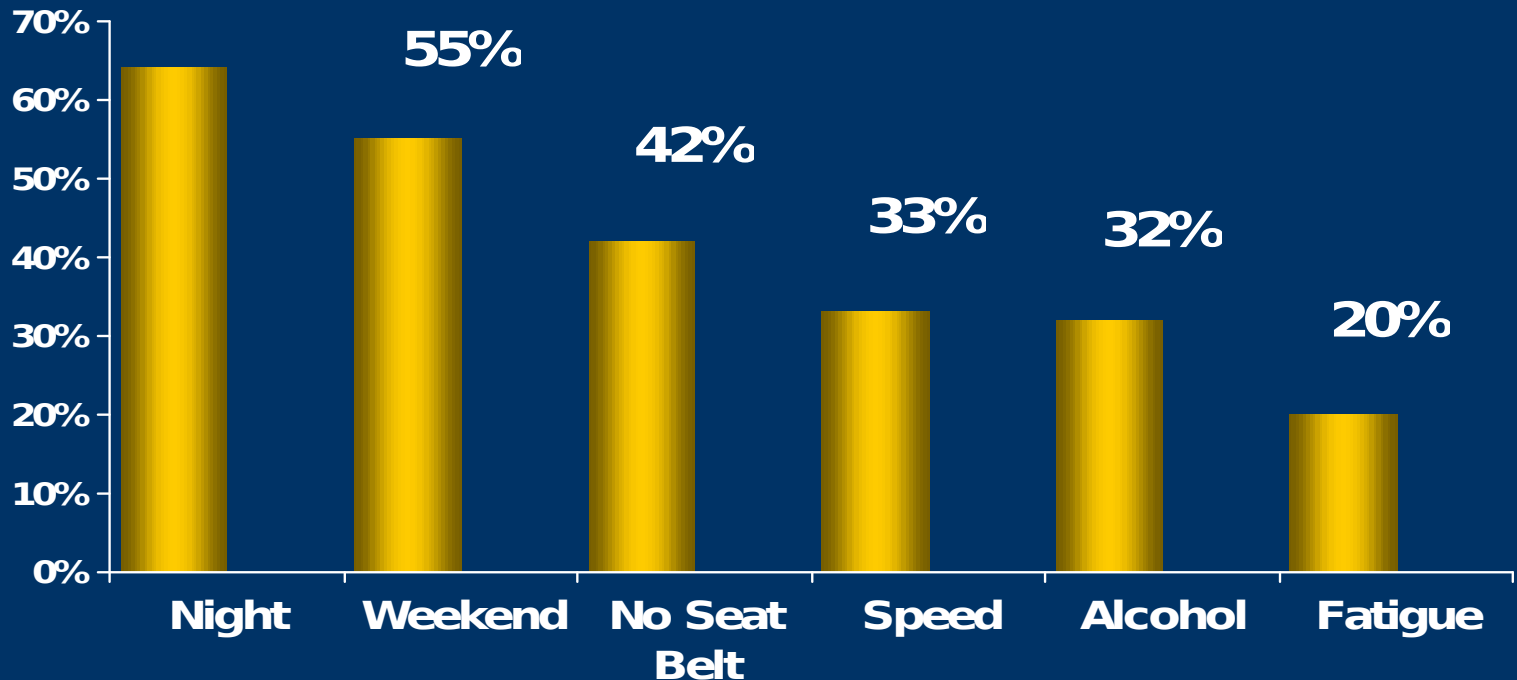
FY99: 122

FY00: 114

FY01: 90
64%

FY02 Deaths:
55

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Present Efforts



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Traffic Safety

Risk

Education

Management

Training

Enforcement



Leadership Commitment



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There are no memorials
to honor service members
who died in car accidents.



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Questions?

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***Visit our website:
www.safetycenter.navy.mil***